

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CATALYST WEGTHANE 5011 COMPONENT B

Code : 10002590

Main recommended uses : Uses in coatings - Catalysis

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2. HAZARD IDENTIFICATION

Mixture classification

Flammable liquids : Category 3

Skin Corrosion/irritation : Category 2

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Specific target organ toxicity - Single exposure : Category 3 (May cause respiratory irritation.)

Hazardous to the aquatic environment - Acute : Category 3

Classification according to NBR 14725-2/2009

Labelling Elements



Warning phrase : Danger

Hazard phrases : H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

Caution Phrases :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

Reaction:

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use as chapter 5 of MSDS to extinguish.

Storage:

P403+P233 Store in a well ventilated place. Keep container tightly closed.

P403+P235 Store in a well ventilated place. Keep cool.

Treatment and disposal of waste:

P501 Dispose of contents/container as chapter 13 of the

MSDS.

Other hazard : Can cause allergic reactions on the skin.

3. COMPOSITION AND INFORMATION ABOUT THE INGREDIENTS

Product type: : Mixture**Ingredients that contribute to danger:**

Product name	CAS No.	Risck classification	Concentration [%]
POLI-ISOCIANATO ALIFÁTICO	28182-81-2	Skin sensitization , Category 1	>= 30 - < 50
SOLVENTE ACETATO DE BUTILA	123-86-4	Flammable liquids , Category 3 Specific target organ toxicity - Single exposure , Category 3 Hazardous to the aquatic environment - Acute , Category 3	>= 30 - < 50
ADITIVO ABSORVEDOR UMIDADE	4083-64-1	Skin Corrosion/irritation , Category 2 Serious eye damage/eye irritation , Category 2A Respiratory sensitization , Category 1 Specific target organ toxicity - Single exposure , Category 3	>= 0,1 - < 1

4. FIRST AID MEASURES

Inhalation : Take the victim to fresh air, keeping them rested and warm. If breathing is irregular or has stopped, apply artificial respiration. Do not give anything orally. Seek medical assistance immediately, bringing the product label whenever possible.

Contact with the skin : Remove the product with vegetal oil (cooking oil) and then wash the skin thoroughly with plenty of water. Do not use

solvents or thinners. Seek medical attention in case of any irritation or other symptoms.

Contact with the eyes : Remove contact lenses, if wearing any. Flush the eyes with running water for at least 15 minutes, holding the eyelids apart. Seek medical assistance immediately, bringing the product label with you.

Ingestion : Do not provoke vomiting. Consult with a doctor immediately.

Most important symptoms and effects, both acute and delayed : Headaches, dizziness, fatigue and in extreme cases, loss of consciousness.

Notes for the doctor : Treat symptomatically. Do not induce vomiting because of risk of aspiration of gastric contents into the lungs. Gastric lavage is recommended when the patient ingests large quantities, more than 5ml of the substance in its pure form. The toxic potential of the quantity consumed must be evaluated in relation to the risk of aspiration during gastric lavage. Activated coal in solution could be useful. However, in some cases the coal induces vomiting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing methods : Water in mist form
Carbon dioxide (CO₂)
Foam alcohol resistant
Dry chemical powder

Extinguishing methods not recommended : Water jet

Specific dangers : The finely dispersed particles form explosive mixtures in air, in the presence of sparks. Burning forms a thick black smoke. Inhalation of dangerous products of decomposition may cause serious damage to health.

Protective measures of the fire fighting team. : Use recommended personal protective equipment: face mask with OV filter and protective goggles.

Specific methods : Cool closed containers in the vicinity of the fire with water. Resultant waste fluid from fire fighting must be stopped from entering drains or waterways. Evacuate the area and fight fire from a safe distance. Use dikes to contain the water used in the fire-fight and dispose it according to local legislation. Use water in mist form to cool the containers exposed to fire. In case of intense fire in the storage area, use hoses handled at distance.

6. SPILL / LEAK CONTROL PROCEDURES

Personal precautions, protective equipment and emergency procedures

For the emergency service staff : If specialized clothing is needed to combat the leak/spillage, Section 8 should be consulted. All precautions described in the previous section must be followed.

For staff who are not part of the emergency services : No action should be taken that may generate danger to people without adequate training and qualifications. Understand the dangers of leaked/spilled products. Use appropriate personal protective equipment - see section 8. Evacuate surrounding areas. Isolate area and keep onlookers away. Do not touch or walk through spilled material. Eliminate all sources of ignition. Avoid breathing vapor or mist. Provide adequate ventilation if possible. Wear appropriate respiratory mask when ventilation is inadequate. In accordance with characteristics of the location and/or area and in relation to the amount of spilled/leaked product, additional emergency measures may be taken under the supervision of a trained professional.

Environmental precautions : Prevent the product or the water used in the service reaches waterways, channels, drains, or galleries. In case of significant spill, retain spilled liquid with inert material such as sand or earth. In appropriate, use absorbent materials such as sawdust, rags, vermiculites, etc.

Methods and materials for containment and cleaning

Large spills / leaks : Understand the dangers of leaked/spilled products. Approaching the site with the wind from behind. Stop leak if this can be done safely. Prevent from entering holes / depressions in the floor. If this happens to provide ventilation. Confine the spill in a dike away from the leak point for later disposal. Remove local packaging from the spill site. Use anti-sparking tools and explosion-proof equipment to collect the product. All equipment used when handling the product must be electrically grounded. Soak up with an inert dry material (sand, vermiculite) placing the same in a suitable container for later disposal - see chapter 13.

Small spills / leaks : Stop the leak if this can be done safely. Prevent from entering holes / depressions in the floor. Cover up spillage in a tarp to prevent the spread by wind or rain. Use antifouling tools and explosion-proof equipment properly grounded to collect the product. Place the material collected in dry, clean and properly identified containers. Cap the container loosened so removing them from the spill site. Avoid formation of dust. Remove the packaging from the spill site. If there is product disposal need refer to chapter 13

Contain and collect the material of the leak with absorbent

materials and non-combustible, such as sand, earth, vermiculite, calcined diatomite, etc. in a waste container in accordance with local regulations.

Dust control : Not applicable

7. HANDLING AND STORAGE

Precautions for safe handling

Instructions for safe treatment : Avoid contact with eyes, skin and clothes. Do not re-use packaging. Do not eat, drink or smoke during use. Do not handle the product before reading and understanding all safety precautions.

Precautions for safe handling : Exposed to elevated temperatures, sun and rain. Emergency showers and eye wash basins must be installed in locations of use and storage. Close to oxidizing agents. Close to food. Close to sources of heat and ignition. Use individual protective equipment.

Fire protection : Only use in well-ventilated locations, to prevent accumulation of vapors in explosive concentrations. All conductive elements of the system, in contact with the product, must be electrically grounded. Keep away from heat and sources of ignition. Tools that do not produce sparks should be used. Do not smoke.

Storage conditions

Storage conditions : The electrical installation must comply with NEC (National Electrical Code) or IEC (International Electrical Commission) standards and/or those of the ABNT (Brazilian Association of Technical Standards). The floor of the storage area must be impermeable, non-combustible and must have ditches that allow run off into the containment reservoir. Storage tanks must be surrounded by embankments and have drains in case of leakage.

Appropriate storage conditions : Store the material in covered, dry, well ventilated and identified areas. Keep out of direct sunlight. Store in a closed container.

Inappropriate storage conditions : Exposed to elevated temperatures, sun and rain. Close to oxidizing agents. Close to food. Close to sources of heat and ignition.

Materials to avoid : Do not store with explosive materials, flammable and/or toxic gases, oxidizing, corrosive substances, or materials that may generate spontaneous combustion.

Secure packaging materials

Recommended packaging materials : Amber type glass.
Metal packaging

Packaging materials to be avoided : Certain plastic materials

8. EXPOSURE CONTROL – PERSONAL PROTECTION

The information in this chapter contain general guidelines. Chapter 1 should be consulted for any information on the recommended use of this product in different scenarios of exposure.

Engineering control measures : Adequate ventilation of machinery is required, maintaining the concentration below the recommended limits of tolerance (LT) recomendados.

Control parameters

Occupational Exposure Limits

Name	CAS No.	TLV/TWA	TLV/STEL	TLV/TETO	Source
POLI-ISOCIANATO ALIFÁTICO	28182-81-2				ACGIH
SOLVENTE ACETATO DE BUTILA	123-86-4	150 ppm			ACGIH
ADITIVO ABSORVEDOR UMIDADE	4083-64-1				

Personal protective equipment required

Respiratory protection : In case of the concentrations are above the indicated tolerance limits, the use of appropriated mask is necessary for this goal (half-face mask or full face mask with filter to organic vapors and acid gases).

Hand protection : In case of prolonged or repeated contact, use nitrile gloves.

Eye protection : Use hermetic goggles to protect against liquid splashes.

Body and skin protection : Wear antistatic clothing made of natural fibers or synthetic fibers resistant to high temperatures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
State of matter	: Liquid
Color	: Data not available.
Odour	: Distinctive
pH	: Data not available.
Melting point	: Data not available.
Boiling point	: Data not available.
Flash Point (Open cup)	: 30 °C
Evaporation rate	: Data not available.
Inflammation point	: Method: Data not available.
Upper explosive limit	: Data not available.
Lower explosive limit	: Data not available.
Vapor pressure	: Data not available.
Density	: 0,91 - 0,97 g/cm ³
Solubility(ies)	: Water-insoluble
N-octano /water partition coefficient	: Data not available.
Cinematic viscosity	: Not applicable

10. STABILITY AND REACTIVITY

Possibility of dangerous reactions	: Presents no reactivity at room temperature and under normal conditions of use. None when the product is stored, applied and processed correctly.
Need to add additives and inhibitors	: Not necessary.
Conditions to avoid	: Extreme heat and open flame.
Incompatible materials	: Do not store with explosive materials, flammable and/or toxic gases, oxidizing, corrosive substances, or materials that may

generate spontaneous combustion.
Plastic materials soluble in Xylene.

Dangerous products of decomposition : Produces noxious gases such as carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).

11. TOXICOLOGICAL INFORMATION

Components

POLI-ISOCIANATO ALIFÁTICO

Acute toxicity by oral use	: Test species DL50 Observations	Rat > 5.000 mg/kg
Acute toxicity by inhalation	: Test species DL50 Observations	Rat Data not available.
Acute toxicity by cutaneous use	: Test species DL50 Observations	Rabbit > 2.000 mg/kg
Acute toxicity (other methods of administration)	: Test species DL50 LC50 Non-standard unit value	Data not available.
Corrosion/irritation of skin	: Data not available.	
Serious eye damage/eye irritation	: Data not available.	
Respiratory or dermal sensitivity	: Category 1	
Mutageneses	: Data not available.	
Carcinogenicity	: Data not available.	
Toxic effects for reproduction	: Data not available.	
Specific target organ toxicity (STOT) - single exposure	: Data not available.	
Specific target organ toxicity (STOT) - repeat exposure	: Data not available.	

SOLVENTE ACETATO DE BUTILA

Acute toxicity by oral use	: Test species DL50 Observations	14.000 mg/kg
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Acute toxicity by inhalation	: Test species DL50 Observations	Rat 2.000 mg/l
Acute toxicity by cutaneous use	: Test species DL50 Observations	14.080 mg/kg
Acute toxicity (other methods of administration)	: Test species DL50 LC50 Non-standard unit value	Data not available.
Corrosion/irritation of skin	: Data not available.	
Serious eye damage/eye irritation	: Data not available.	
Respiratory or dermal sensitivity	: Data not available.	
Mutageneses	: Data not available.	
Carcinogenicity	: Data not available.	
Toxic effects for reproduction	: Data not available.	
Specific target organ toxicity (STOT) - single exposure	: Passengers effects on organ target . These are effects that alter human function for a short period of exposure	
Specific target organ toxicity (STOT) - repeat exposure	: Data not available.	

ADITIVO ABSORVEDOR UMIDADE

Acute toxicity by oral use	: Test species DL50 Observations	Rat 2.600 mg/kg
Acute toxicity by inhalation	: Test species DL50 Observations	Data not available.
Acute toxicity by cutaneous use	: Test species DL50 Observations	Data not available.
Acute toxicity (other methods of administration)	: Test species DL50 LC50 Non-standard unit value	Data not available.
Corrosion/irritation of skin	: Category 2	
Serious eye damage/eye irritation	: Category 2A	

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Respiratory or dermal sensitivity	: Category 1
Mutageneses	: Data not available.
Carcinogenicity	: Data not available.
Toxic effects for reproduction	: Data not available.
Specific target organ toxicity (STOT) - single exposure	: Passengers effects on organ target . These are effects that alter human function for a short period of exposure
Specific target organ toxicity (STOT) - repeat exposure	: Data not available.

12. ECOLOGICAL INFORMATION

Stability in soil	: The product easily infiltrates into the soil
Other toxicological observations	: Data not available.
Ecotoxicity	: Contaminates the ground water. Detrimental to the fauna Detrimental to the flora.

13. DIOSPOSAL AND TREATMENT CONSIDERATIONS

Recommended methods for final disposal

Product	: Class I Waste - Dispose of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations
Waste	: Class I Waste - Dispose of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations
Used packaging	: Clean packaging should be sent for recycling. Packaging with class I waste should be disposed of in industrial landfill or a facility authorized for recycling in accordance with federal, state or local regulations.

14. TRANSPORTATION INFORMATION

Land

ONU : 1263
Class of risk : 3
Risk number : 30
Packaging group : III
Name Tinta

Shipping

ONU : 1263
Class of risk : 3
Packaging group : III
EmS F-E
MFAG 310
Appropriate name for dispatch Tinta

Air transport

ONU : 1263
Class of risk : 3
Packaging group : III
Appropriate name for dispatch Tinta

15. REGULATORY INFORMATION

This MSDS (Material Safety Data Sheet) was generated according to the criteria of NBR 14725 (Brazilian standard that defines the GHS).

16. ADDITIONAL INFORMATION

Acronyms Used:

Legenda:

CAS	Chemical Abstract Service
VO	Organic Vapors
NEC	National Eletrical code/Código Nacional de Eletricidade
IEC:	International Eletrical Comission

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ABNT	Brazilian Association of Technical Standards
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Values
TLV/TWA	Time Weighted Average
TLV/STEL	Short Term Exposure Limit
TLC/C:	Tolerance Limit - Ceiling Value
EPI:	Individual Protective Equipment
CA	Approval Certificate
PPRA	Environmental Risk Prevention Program
NR	Regulatory Standard
NFPA	National Fire Protection Agency
mmHg	Millimeters of mercury - pressure unit
DL50	Lethal Dose average
CL50	Lethal Concentration average
ppm	Parts per million
N.d	Not available

Vertical lines in the left hand margin indicate changes from the current version

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